

Eisbericht Nr. 34

Amtsblatt des BSH

Jahrgang 95

Nr. 34

Friday, 14.01.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 20–40 cm dickes Festeis und im Süden 10–30 cm dickes Festeis. Auf See befindet sich sehr dichtes, 5–15 cm dickes Eis im Norden und Nordosten und ansonsten zumeist offenes Wasser mit örtlich lockerem bis dichtem Treibeis. In Norra Kvarken liegt in den Schären bis zu 35 cm dickes Festeis und auf See kommt zumeist offenes Wasser vor. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 35 cm dickes Festeis. Im östlichen Teil treibt auf See sehr dichtes, 5–15 cm dickes Eis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht sowie zumeist sehr lockeres Eis entlang der nördlichen Küste. Neueis oder dünnes, ebenes Eis kommt örtlich in der nördlichen Ostsee, dem Vänern und der südöstlichen Ostsee vor. Neueis kommt in geschützten Buchten der zentralen Ostsee vor. In einigen inneren Fjorden des Skagerraks liegt Neueis oder Festeis.

Overview

In the archipelagos of the Bay of Bothnia, there is 20–40 cm thick fast ice in the north and 10–30 cm thick fast ice in the south. At sea, there is very close, 5–15 cm thick ice in the north and northeast and else mostly open water with open to close drift ice at places. In Norra Kvarken, there is up to 35 cm thick fast ice in the archipelagos and mostly open water at sea. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice. In the Gulf of Finland, there is up to 35 cm thick fast ice along the northern coast and in the easternmost part. At sea in the east, there is mostly very close, 5–15 cm thick ice. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay and very open ice in along the northern coast. New ice and thin level ice occurs at places in the northern Baltic, Lake Vänern and the southeastern Baltic. New ice occurs in sheltered areas of the central Baltic. Fast ice or new ice is present in some inner fjords of the Skagerrak.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 20–40 cm thick fast ice, from the Finnish coast reaching out to Hebe and Kattilankalla. Off the fast ice in the east, there is 10–35 cm thick consolidated ice to Kemi-2 and Oulu-2. Further out to some nm south and west of the line Malören – Kemi-1 – Raahé, there is very close 5–15 cm thick

ice, partly ridged. At the ice edge, a brash ice barrier has formed. Around and east of Norströmsgrund and Falkensgrund, there is open to close, 5–15 cm thick drift ice. Very open ice is present from Norströmsgrund to the fast ice edge. In the southern Bay of Bothnia, there is 10–30 cm thick fast ice in the archipelagos. At sea, there is 5–15 cm thick,

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very open ice off Pietarsaari. Else, there is open water with strings and patches in the Bay of Bothnia.

Norra Kvarken

In the archipelagoes off Vaasa, there is 10–35 cm thick fast ice to Ensten. Further out, there is some very close drift ice, under pressure at places. Along the Swedish coast, there is 10–25 cm thick fast in the inner archipelagos and thin level ice or very close ice to Holmöarna. At sea, there is open

Sea of Bothnia

On Ångermanälven, there is 15–35 cm thick fast ice and 5–15 cm level ice in the entrance. Else, there is 10–25 cm fast ice or thin level ice in the archipelagos and bays. Along the eastern ice

Archipelago and Åland Sea

Thin level ice is present in inner archipelagos of the coasts and around the Åland islands. On the larger fairways at the eastern coast, there is mainly

Gulf of Finland

From St. Petersburg up to the dike, there is 25–35 cm thick fast ice. Farther out to Tolbuchin lighthouse, there is 20–30 cm thick fast ice. In the Bay of Vyborg, there is 25–35 cm fast ice. In the Bjerkesund, there is fast ice, 20–30 cm thick, or very close ice. At sea east of about 28° E, there is mostly very close, 5–15 cm thick ice, but between Seskar and Moščnyj, there is very open ice or open water. In the archipelagos of the northern coast, there is 20–35 cm fast ice. Off the fast ice,

Gulf of Riga

In Moonsund, there is very close, 10–25 cm thick ice and fast ice in the eastern bays. In the central part, there is thin level ice or very close ice. At the south coast of Saaremaa, there is thin level ice or very close ice. Further out, there is mostly very open ice with a band of close to very close drift ice. In Pärnu Bay, there is 10–25 cm thick fast ice or

Northern Baltic

In Lake Mälaren, there is 5–20 cm thick fast ice or level ice in the western part. The central part is mostly ice free and in sheltered bays further east, there is thin level or new ice. Along the Swedish

Central Baltic

New ice occurs in some sheltered bays along the Swedish coast.

Southeastern Baltic

In the Curonian Lagoon, there is very close, 3–10 cm thick ice in the eastern part and else open water. In the Vistula Lagoon, there is thin very open

There will be a strong ice drift to the southeast turning east on Saturday. Some ice growth but else no larger changes are expected over the weekend.

water with strips and patches at places and some close drift ice around Nordvalen.

There will be a strong ice drift to the southeast turning east on Saturday but else no larger changes.

edge, there is thin very close ice at places

No larger changes but some ice melt are expected over the weekend.

open water.

No larger changes are expected over the weekend.

there is drifting ice of varying concentration to south of the line Tiiskeri – Haapasaari with some very close ice south of Kotka. At the southern coast, new ice is present in some sheltered bays along the shore. In Lake Saimaa and the Saimaa Canal, there is 20–35 cm thick ice.

Over the weekend, there will be some ice growth in the eastern part and else mostly unchanged conditions. There will be ice drift to the southeast turning to northeast on Sunday.

very close ice to Kihnu. From Kihnu to Moonsund, there is very close ice or thin level ice. In the port of Riga, there is very open, 5–10 cm thick ice.

Over the weekend, a strong ice drift to the southeast turning to east on Sunday is expected.

Else, there will be no larger changes.

coast, there is new ice or shuga in some sheltered bays.

No larger changes are expected over the weekend.

Over the weekend, slow ice melt is expected.

ice or open water.

Slow ice melt continues over the weekend.

Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is fast ice, up to 30 cm thick at a few places, and new ice at places. Else, it is ice free.

Over the weekend, no larger changes are expected.

Swedish Lakes

New ice as well as thin level ice is present in sheltered bays of Lake Vänern. Along the northern coast, there is 5–20 cm thick fast ice.

Over the weekend, slow ice melt continues with temperatures slightly above or around 0°C.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C	17.12.
Finland	Tornio, Kemi and Oulu	2000 dwt	IA	11.01.
	Tornio, Kemi and Oulu	4000 dwt	IA	16.01.
	Raahe	2000 dwt	IB	25.12
	Raahe	4000 dwt	IA	16.01.
	Vaasa	2000 dwt	I	22.12.
	Vaasa	2000 dwt	IB	16.01.
	Kokkola	2000 dwt	IB	11.01.
	Kalajoki and Pietarsaari	2000 dwt	IB	11.01.
	Kaskinen, Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Taalintehdas, Förby, Koverhar, Lappohja, Inkoo, Kantvik, Helsinki and Sköldvik	2000 dwt	II	01.01.
	Kaskinen, Taalintehdas, Förby, Inkoo, Kantvik	2000 dwt	I	16.01.
	Loviisa and Kotka	2000 dwt	I	04.01.
	Hamina	2000 dwt	I	01.01.
	Mussalo	2000 dwt	II	25.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	06.01.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	27.12.
	Primorsk	-	Ice 1	12.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
Sweden	Karlsborg and Luleå	2000 dwt	IB	06.01.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Holmsund, Rundvik and Husum	2000 dwt	II	22.12.
	Holmsund, Rundvik and Husum	2000 dwt	IC	15.01.
	Örnsköldsvik	2000 dwt	II	22.12
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand- Skutskär	2000 dwt	II	22.12.
	Köping and Västerås	2000 dwt	IC	27.12.
	Bålsta	1300/2000 dwt	IC/II	27.12.
	Trollhätte Canal and Göta Älv	-	-	12.01.
	Vänern	-	-	12.01.

Information of the Icebreaker Services

Estonia

Icebreaker: EVA-316 assists to the port of Pärnu.

Finland/Sweden

Vessels bound for Gulf of Bothnia ports in which assistance restrictions apply, shall when passing latitude 60° 00' N report their nationality, name, destination, ETA and speed to ICE INFO on VHF channel 78. This report can also be given directly by telephone to +46 10 492 7600.

Vessels bound for Finnish or Swedish ports with assistance restrictions in the Quark or the Bay of Bothnia shall, 20 nautical miles before Nordvalen Lighthouse (63° 32.15' N 20° 46.60' E), report in accordance with the instructions for winter navigation to Bothnia VTS on VHF channel 67.

Icebreakers:

OTSO, KONTIO, URHO, FREJ and YMER assist in the Bay of Bothnia. ALE and ZEUS assist in the Quark and **VOIMA** in the eastern Gulf of Finland. PROTECTOR and METEOR assist in the northern Lake Saimaa. CALYPSO assists in the southern Lake Saimaa and the Saimaa Canal.

Norway

Drammensfjord: Navigation dangerous for low powered vessels. (07.01.2022)

Husøysund, Tønsberg indre havn and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (28.12.21)

Skåtøysund (Kragerø): Navigation difficult or dangerous for wooden vessels (10.01.22)

Langårsund and Hellefjorden (Kragerø): Navigation temporarily closed. (10.01.22)

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

Icebreakers: Several icebreakers assist vessels to the port of Vyborg, Vysotsk, Primorsk, Ust-Luga and St. Petersburg.

Baltic Sea Ice Code

<p>First number:</p> <p>A_B Amount and arrangements of sea ice</p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p>T_B Topography or form of ice</p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p>S_B Stage of ice development</p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p>K_B Navigation conditions in ice</p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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Finland, 13.01.2022

Roeyttae – Etukari	8846
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	5366
Kemi 2 – Kemi 1	5756
Sea area SW of Kemi 1	5256
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu harbours – Kattilankalla	8846
Kattilankalla – Oulu 1	6846
Sea area SW of Oulu 1	5756
High Sea N of the latitude of Marjaniemi	2716
Raahe harbour – Heikinkari	7346
Heikinkari – Raahe lighthouse	6746
Raahe lighthouse – Nahkiainen	3716
Latitude Marjaniemi – Ulkokalla, Sea	2716
Rahja harbour – Välimatala	5366
Vaelimatala to line Ulkokalla – Ykskivi	3716
Sea betw. lat. of Ulkokalla –Pietarsaari	3726
Ykspihlaja – Repsaer	7366
Repsaer – Kokkola lighthouse	5766
Sea area off Kokkola lighthouse	3726
Pietarsaari – Kallan	7766
Sea area off Kallan	2216
Sea lat. Pietarsaari – NE Nordvalen	1216
Sea area ENE of Nordvalen	1716
Sea area Nordvalen to W of Norrskaer	0//6
Vaskiluoto – Ensten	8846
Ensten – Vaasa lighthouse	5746

Vaasa lighthouse – Norrskaer	1216
Sea area SW of Norrskaer	0//6
Kaskinen – Sälgrund	5745
Sea area off Sälgrund	5145
Pori harb. to line Pori lighth. – Säppi	4145
Rauma, Harbour – Kylmäpihlaja	5745
Kylmäpihlaja – Rauma lighthouse	1115
Sea area W of Rauma lighthouse	0//5
Uusikaupunki harbour – Kirsta	5745
Naantali and Turku – Rajakari	4045
Rajakari – Lövskär	1015
Lövskär – Korra	2005
Korra – Isokari	1005
Lövskär – Berghamn	1005
Hanko – Vitgrund	4045
Koverhar – Hästö Busö	4045
Inkoo a. Kantvik – sea area Porkkala	5745
Helsinki harbours – Harmaja	5745
Harmaja – Helsinki lighthouse	4045
Fairway Helsinki – Porkkala – Rönnskär	5045
Vuosaari harbour – Eestiluoto	5745
Porvoo harbours – Varlax	5245
Varlax – Porvoo lighthouse	3115
Porvoo lighthouse – Kalbådagrund	1005
Valko Harbour – Täktarn	7746
Archipelago fairway Boistö – Glosholm	4145
Archipelago fairway Glosholm–Helsinki	4145
Kotka – Viikari	5246
Viikari – Orregrund	5246

Orregrund – Tiiskeri	4146	Grönsö – Södertälje	5144
Tiiskeri – Kalbådgrund	0//6	Stockholm – Södertälje	5144
Hamina – Suurmusta	8846	Södertälje – Fifong	5144
Suurmusta – Merikari	5246	Norrköping – Hargökalv	2020
Merikari – Kaunissaari	4246	Fairway to Karlstad	8342
		Fairway to Kristinehamn	8342

Estonia, 14.01.2022

Shipping route from Narva-Jõssuu	72/2
Kunda, port and bay	20/0
Paernu, port and bay	7345
Shipp. route from Paernu to Irben Strait	42/2
Moonsund	42/2

Latvia, 14.01.2022

Port of Riga	1000
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Russian Federation , 14.01.2022

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	83/3
E-point Kotlin – long. lighth. Tolbuhkin	83/3
Lighth. Tolbuhkin – lighth. –Šepelevskij	51/2
Lighthouse Šepelevskij – island Sescar	52/3
Island Sescar – Island Sommers	2211
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	52/3
Strait Bjerkesund	51/2
E-point Bol'šoj Ber'ozovyj –epelevskij	52/2
Luga bay	52/3
Appr. Luga bay – line Mo.–epel.	3211

Sweden, 14.01.2022

Karlsborg – Maloeren	8446
Sea area off Maloeren	5276
Luleå – Bjoernklack	8446
Bjoernklack – Farstugrunden	1206
E and SE of Farstugrunden	1206
Sandgroenn fairway	8446
Roedkallen – Norstroemsgrund	2226
Haraholmen – Nygrån	8446
Sea area off Nygrån	1206
Skelleftehamn – Gåsoeren	5246
Sea area off Gåsoeren	5266
Sea area off Bjuroeklubb	1206
NE of Nordvalen	4256
SW of Nordvalen	4256
Western Quark (W of Holmoearna)	8346
Umeå – Vaektaren	2226
SE of Vaektaren	2226
Oernskoeldsvik – Hoernskaten	8346
Ångermanaelven north Sandoe Bridge	8444
Ångermanaelven south Sandoe Bridge	8444
Haernoessand – Haernoen	5244
Sundsvall – Draghaellan	8346
Hudiksvallfjaerden	5246
Iggesund – Agoe	5246
Sandarne – Haellgrund	5146
Gaeve – Eggegrund	5146
Hallstavik – Svartklubben	5142
Koeping – Kvicksund	8344
Västerås – Grönsö	8344